

NOVEMBER 2023

57705/CS22A

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer any TEN questions.

1. What is Regression correlation?
2. Define Newton method.
3. What is logistic regression?
4. Define PAC learning.
5. List out the issues of machine learning.
6. Define Perception.
7. Tell about multi-class.
8. Give some Kernel functions.
9. What is Bagging?
10. Define Clustering.
11. Short note on Random Forest Tree.
12. What is Bayesian Learning?

PART B — ($5 \times 5 = 25$ marks)

Answer any FIVE questions.

13. Explain the multiple regression technique.
14. Describe the accelerated gradient methods.
15. Discuss about the perspectives of machine learning.
16. Explain the multi-label classification.
17. Illustrate the multilayer perceptron.
18. Describe K-mean clustering of partition.
19. Explain the Naive Bayes classifier.

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions.

20. Explain the Rank correlation with partial and multiple.
21. Illustrate the Finite and Infinite Hypothesis spaces.
22. Describe the Classification and Regression Tree (CART).

23. Explain the k-nearest neighbours for vector machines.
 24. Write about the ensemble learning model combination schemes.
 25. Discuss about the Bayesian Belief Networks.
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